

2nd Quarter FY00 GRC SIP Milestone Status

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								BLUE	GREEN	YELLOW	RED																						
0A1.0		2000	GRC Objective A1: Reduce aircraft accidents related to icing, weather, poor visibility, and engine problems; develop technology to prevent and suppress aircraft fires.			C. RUSSO	2000																										
2000A1.1		2000	Complete and publish three-dimensional design guidelines for the control of gear crack paths and the prediction of crack growth rates in ultrasafe gears.	2Q01 4Q00	Late 2Q01	D. Lewicki/ J. Zakrajsek	5950/ 0300	Rotorcraft Base/Safe All Weather Ops for RC (581-30)	GREEN	YELLOW	GREEN	The Glenn rotorcraft base program suffered a 40% cut in funds in FY00. As a result, the SILNT program was cut, and the SAFOR program suffered some milestone delays due to the reduced funding levels. This milestone was one of the efforts that had to be delayed due to funding cuts. The delayed milestone was coordinated with the Rotorcraft Base Program Office at Ames. 5000 S. Foust																					
2000A1.2		2000	Complete a report detailing the datalink and communications requirements of current and future weather products and tools.	1Q00	1Q00	K. Martzaklis	6150	AvSP/WxP	GREEN	GREEN	GREEN	Completed. 6100/5600 Paul McMasters																					
2000A1.3		2000	Develop candidate next-generation communication system architectures addressing the timely and accurate dissemination of high quality graphical weather information	3Q00	2Q00	K. Martzaklis	6150	AvSP/WxP	GREEN	BLUE	GREEN	Completed. Complete early in 2Q00 6100/5600 Paul McMasters																					
0A2.0		2000	GRC Objective A2: Reduce the emissions of aircraft engines designed after 1997 by a factor of three by the year 2007 and by a factor of five by the year 2022.			C. RUSSO	2000																										
2000A2.1		2000	Demonstrate "smart" turbomachinery concepts to minimize pollutants throughout the mission cycle.	4Q00		R. Corrigan K. Civinskis	2200	AeroSpace Propulsion & Power Base Propulsion systems R&T Base/Turbomachinery and combustion Technology (TCT)	GREEN	GREEN	GREEN	0140 B. Mader																					
2000A2.2	OR1	2000	Complete flametube evaluation of 70% Landing and Take-off (LTO) Nitrogen Oxides (NOx) reduction concepts.	4Q00		J. Rohde	2100	UEET	GREEN	GREEN	GREEN	Testing on schedule in ERB																					
2000A2.3		2000	Complete selections of turbomachinery flow control concepts for fans and compressors that offer promise for use in future propulsion systems for improved performance across the mission cycle and reduced pollutants.	3Q00		K. Civinskis J. Rohde	2100	UEET	N/A	N/A	N/A	Milestone was planned for completion 3/00 in baseline program plan. Fan and compressor portions of milestone are being split and new dates being developed as part of UEET refresh efforts.																					
2000A2.4		2000	Complete selection of ceramic thermal barrier coating concepts that will be developed as part of a turbine material system development, capable of sustained performance at 3100o F turbine rotor inlet temperature.	4Q00		A.J. Misra	2100	UEET	GREEN	GREEN	GREEN	Initial results from seven new coating compositions show 50 % reduction in thermal conductivity. Another thirteen new coatings are in the process of being tested.																					
2000A2.5		2000	Complete preliminary technology benefits assessment of candidate technologies for contributions to achievement of overall Ultra Efficient Engine Technology (UEET) program goals for performance increase and reduced emissions.	4Q00		B. Plencner	2100	UEET	GREEN	GREEN	GREEN	Initial technology assessments on two commercial aircraft have been completed and reviewed with Dan Goldin.																					

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0A3.0		2000	GRC Objective A3: Reduce the perceived noise of future subsonic aircraft engines designed from those designed before 1997 by a factor of two by the year 2007 and by a factor of four by the year 2022.			C. RUSSO	2000																									
2000A3.1	0R2	2000	Validate technology to reduce community noise impact by 10 decibels (dB) relative to 1992 technology (engine source noise contribution is a least 6 dB).	4Q00		A. Liang L. Shaw/ D. Huff/ J. Dittmar/ R. Woodward/ G. Hughes/	2200/ 5940	Air Frame Systems /Base R&T	GREEN	GREEN	GREEN	0140 B. Mader On schedule and within cost (no change from previous quarter input). 5000 S. Foust																				
0A4.0		2000	GRC Objective A4: Develop and demonstrate enhanced aviation system throughput by propulsion system enhancements for rotorcraft and an improved airspace communications infrastructure to support free flight.			C. RUSSO	2000																									
2000A4.1		2000	Complete development of a Ku-Band Aeronautical Communications Terminal	1Q00	4Q99	K. Martzaklis	6150	ASC/AATT	GREEN	BLUE	GREEN	Completed 6100/5600 Paul McMasters																				
0A5.0		2000	GRC Objective A5: Reduce aircraft engine design, development, acquisition, and maintenance costs to help achieve a 25-percent reduction in 1997 air travel cost by the year 2007 and a 50-percent reduction by the year 2022.			C. RUSSO	2000																									
2000A5.1		2000	Demonstrate a 900 deg. F silicon carbide (SiC) pressure sensor on an engine.	4Q00		C. Ginty/ G. Beheim	2200/ 5510	AeroSpace Propulsion & Power Base Program Higher Operating Temperature Propulsion Components (HOTPC)	GREEN	GREEN	GREEN	On schedule, no problems. 0140 B. Mader 5000 S. Foust																				
0A6.0		2000	GRC Objective A6: Effectively and efficiently close out GRC activities under NASA's High Speed Research Program, which terminates in FY2000.			C. RUSSO	2000																									
0A7.0		2000	GRC Objective A7: Develop low-cost intermittent combustion and turbine engines and single-lever engine controls for General Aviation aircraft.			P. McCALLUM F. BERKOWEG	0140																									
1999A7.3		1999	² By the end of FY1999, complete engine preflight ground tests for both engines.	4Q99		L. Burkardt/ G. Lee	2200/ 5830	Propulsion-Systems-R&T-Base/General Aviation Propulsion (GAP)				The GAP Project was replanned due to technical difficulties. This FY99 GRC SIP milestone was split into two new FY00 milestones, 2000A7.2 and 2000A7.3.																				
2000A7.2	0R7	2000	IC Engine Element: by 3/00 complete Engine/Propeller Integration Test clearing engine design for flight.	2Q00	Late 3Q00	L. Burkardt	2200	Aerospace Propulsion & Power Base/General Aviation Propulsion (GAP)	GREEN	YELLOW	GREEN	Project is on schedule with technical work proceeding well, but there is little room for further slippage. 0140 B. Mader																				
2000A7.3	0R7	2000	Turbine Engine Element: By 5/00 complete Engineering Indendent Review Team (EIRT) Assessment certifying V-Jet II/FJX as flight ready	3Q00		L. Burkardt	0140	Aerospace Propulsion & Power Base/General Aviation Propulsion (GAP)	GREEN	RED	GREEN	Turbine engine demonstration waived by NASA Administrator; replan in progress. 0140 C. Ginty/L. Burkardt																				
2000A7.1	0R7	2000	Perform flight demonstrations of advanced General Aviation piston and turbine engines at the annual Oshkosh Air Show.	4Q00		L. Burkardt	0140	Aerospace Propulsion & Power Base/General Aviation Propulsion (GAP)	GREEN	GREEN	GREEN	Piston engine demo expected at Oshkosh as planned. Turbine engine demonstration waived by NASA Administrator; replan in progress. 0140 C. Ginty/L. Burkardt																				

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As of 6/19/00

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SIP MILESTONE EVALUATION (**ACTION: Complete Columns J to M**)

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0A8.0		2000	GRC Objective A8: Develop computing and testing tools to reduce aircraft engine design and development time.			C. RUSSO	2000					
2000A8.1		2000	Develop ground and flight demonstration capabilities and methodologies for integrated air-breathing propulsion systems for experimental hypersonic vehicles and access to space.	4Q00	Late 1Q01	D. Palac/ R. Blech	0142/ 5880	Aerospace Propulsion & Power Base Propulsion Systems R&T Base/Hybrid Propulsion (HHP)	GREEN	YELLOW	GREEN	0140 reported schedule as "Yellow." Mixer/combustor and forebody interactions rigs 1 quarter behind due design difficulty; schedule of other project elements adjusted for later receipt of data. 0140 B. Mader --- 0140 PROPOSES THIS MILESTONE SHOULD BE ELIMINATED AS IT DUPLICATES A9.6 0140 B. Mader --- 5000 reported no cost and schedule as "Green" 5000 S. Foust
2000A8.2		2000	Demonstrate real-time, on demand, off-body instrumentation systems suitable for use in high- productivity wind tunnels and aeropropulsion facilities.	4Q00		C. Mercer	5520	Information technology base R&T program (ITTs)	GREEN	GREEN	GREEN	5000 reported cost as "Yellow." One large purchase will be entered into APRS by 5-31-00. It will solve our costing problem. 5000 S. Foust 0140 reported cost as "Green." 0140 B. Mader
2000A8.3		2000	Release Numerical Propulsion System Simulation (NPSS) Version 1 to industry.	2Q00	2Q00	C. Naiman	2900	High Performance Computing and Communication	GREEN	GREEN	GREEN	Completed
2000A8.4		2000	Complete overnight core engine simulation using 3-D Navier-Stokes codes, APNASA, and the National Combustion Code.	4Q00		Joe Veres	2900	High Performance Computing and Communication	GREEN	GREEN	GREEN	
0A9.0		2000	GRC Objective A9: Reduce the cost contribution of access-to-space propulsion systems and associated subsystems while improving their performance, life, function and operability.			G. BARNA / F. BERKOPEC- P. McCallum	6000/ 0140					
2000A9.1		2000	Develop and demonstrate X-33-scale advanced propellant densification technology. Complete LOX densifier verification testing and assembly of a hydrogen densifier.	2Q00	Late 3Q00	D. Vento / T. Tomsik	6500	RLV Focused	YELLOW	YELLOW	YELLOW	LOX Densifier Testing will take place in the 3rd quarter of 00. Hydrogen Densifier Assembly will be completed 3rd quarter of 00. 6000 M. Lester
2000A9.2		2000	Develop and demonstrate application of the health management Post Test Diagnostic System for Reusable Launch Vehicles and the X-33.	3Q00	1Q00	J. Zakrajsek /C. Meyer	6500	X-33	GREEN	BLUE	GREEN	Completed 6500 Scott Graham
2000A9.3		2000	Develop and demonstrate advanced structural concepts and materials for reusable propulsion system components such as gas generation combustors, and thrust cell liners.	4Q00		J. Borsody	6500	RLV Focused	GREEN	GREEN	GREEN	6000 M. Lester
2000A9.4		2000	Complete a high voltage modular switch breadboard and select most promising candidates for further development.	4Q00		J. Soeder	5450	Launch Technology Bentham	GREEN	GREEN	GREEN	On schedule to make downselect at end of 4th quarter FY 2000. 5000 S. Foust
2000A9.5		2000	Complete flowpath definition and testing for first flight demonstrator.	4Q00		Don Palac	0142	Aerospace Propulsion & Power Base/HHP	GREEN	GREEN	GREEN	0140 PROPOSES THIS MILESTONE SHOULD BE ELIMINATED AS IT DUPLICATES A9.7. 0140 B. Mader
2000A9.6		2000	Complete rocket-based combined cycle (RBCC) propulsion inlet, mixer-combustor, and integrated propulsion pod component validation for semi-axisymmetric vertical take-off systems.	4Q00	Late 1Q01	Don Palac John-Sankovic	0142	Aerospace Propulsion & Power Base/HHP	GREEN	YELLOW	GREEN	Mixer/combustor and forebody interactions rigs 1 quarter behind due design difficulty; schedule of other project elements adjusted for later receipt of data. 0140 B. Mader

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2000A9.7		2000	Complete definition of rocket-based combined cycle (RBCC) propulsion integration technology applications concept to semi-axisymmetric vertical take-off systems.	4Q00		Don Palac	0142	Aerospace Propulsion & Power Base/HHP	GREEN	GREEN	GREEN	0140 B. Mader																					
0A10.0		2000	GRC Objective A10: Develop advanced spacecraft propulsion technology.			G. BARNA	6000																										
2000A10.1		2000	Complete 500-hour test of a 10 -500 kilowatt Hall Electric Thruster in support of the Advanced Space Transport Program	4Q00		John Sankovic Harry Gikanek	6500	ASTP In-Space	GREEN	GREEN	GREEN	100 Hours of operation as of 5/2/00. 6000 M. Lester																					
2000A10.2		2000	In partnership with Russia, flight-demonstrate Hall Effect thruster technology on EXPRESS.	4Q00	Missed Launch Late	John Dunning Harry Gikanek	6500	Pathfinder	RED	RED	RED	Flight Hardware will not meet scheduled June launch date. Work is continuing in the event the launch date slips. 6000 M. Lester																					
OngoA10.A	On-going		Investigate breakthrough propulsion physics.	On-going		M. Millis	5870 5880	Space Transportation Research	GREEN	GREEN	GREEN	All NRA selections on contract, research now underway. 5870 Marc G. Millis																					
0A11.0	OR13	2000	GRC Objective A11: Complete 90 percent of all AT Enterprise-controlled milestones within 3 months of their scheduled completion.			P. McCALLUM/ C. RUSSO/ G. BARNA	0140/ 2000/ 6000																										
OngoA11.A	OR13	On-going	Complete 90% of all Enterprise controlled milestones within 3 months of schedule.	4Q00		P. McCALLUM/ C. RUSSO/ G. BARNA	0140/ 2000/ 6000	N/A	N/A	88%	N/A	Code R goal is 90% within 3 months (i.e. Yellow or better)																					

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0H1.0		2000	GRC Objective H1.0: Develop power, communications, and in-space propulsion systems and advance the state of knowledge of reduced-gravity effects to enable human missions of exploration. (Was supporting FY99 HEDS Goal 2, now FY2000 HEDS Goal 1)			G. BARNA	6000																									
2000H1.1		2000	Deliver the Mars Array Technology Experiment (MATE) and Dust Accumulation and Removal Experiment (DART) flight experiments for the Mars 2001 mission	2Q00	Late 4Q00	D. Flood	5410	CETDP Power Tech/ Mars 2001	YELLOW	YELLOW	GREEN	MATE/DART flight hardware delivery will not meet the original project schedule, however JSC's overall schedule has been slipped for other reasons. Funding received does not cover the GRC workforce costs. 6000 M. Lester																				
2000H1.2		2000	Develop an advanced power converter using digital control and demonstrate output impedance tailoring (Same as 2000E1.1)	3Q00	2Q00	J. Soeder	5450	CETDP Power Tech.	GREEN	GREEN	GREEN	Completed. Milestone completed late in 2Q of FY 2000. 5000 S. Foust																				
2000H1.3		2000	Receive the phased-array antenna flight unit from Raytheon for the Direct Data Distribution (DDD) experiment and commence test and integration.	3Q00	Late 2Q01	J. Budinger/ L. Wald	6100/ 6150	Space Operations Program/ Communications Technology Activities Project	GREEN	YELLOW	GREEN	Contract delivery is expected to be delayed by 6 months due internal contractor technical issues (See SIP 2000S1.2). Item is not on Critical Path and Project Schedule minimally impacted. 6100 P. McMasters																				
2000H1.4		2000	Develop a miniature internet router breadboard for 2-4 megabit per second mobile applications.	4Q00		J. Budinger/ P. Paulsen	6100/ 6150	Space Operations Program/ Communications Technology Activities Project	GREEN	GREEN	GREEN	6100 P. McMasters																				
2000H1.5		2000	Support World Radiocommunications Conference 2000, including all preparatory meetings.	3Q00		W. Whyte	6140	Spectrum Management	GREEN	GREEN	GREEN	6100 P. McMasters																				
2000H1.6		2000	Support Inter-American Telecomm Commission Radiocommunications Committee	1Q00	1Q00	W. Whyte	6140	Spectrum Management	GREEN	GREEN	GREEN	Complete 6100 Paul McMasters																				
OngoH1.A	On-going		Develop methods, data bases, and validating tests for material flammability characterization.	On-going		D. Urban	6711	Combustion Science Research Projects	GREEN	GREEN	GREEN	6000 M. Lester																				
OngoH1.B	On-going		Advance the state of reduced-gravity fluid physics knowledge to allow the development of reliable and efficient heat transfer technology for space and extraterrestrial operations.	On-going		B. Signh/ J. Gaby	6712/ 5870	Fluid Physics Research Projects	GREEN	GREEN	GREEN	Workshop planned for July 25-26, 2000 in Cleveland to identify research issues. Defining space flight experiments CVB and PoolBoiling for ISS. New Pls selected from 98-NRA. 6000 M. Lester The proposals have been evaluated and rated and are awaiting funding. 5000 S. Foust																				
OngoH1.C	On-going		Advance the state of reduced-gravity fluid physics knowledge to allow development of effective fluids fuel management technology for space, extraterrestrial, and industrial operations.	On-going		B. Signh/ J. Gaby	6712/ 5870	Fluid Physics Research Projects	GREEN	GREEN	GREEN	Initiating plans for workshop in Sept 2000 in Cleveland. Made progress in defining flight experiment on moving contact line. 6000 M. Lester The proposals have been evaluated and rated and are awaiting funding. 5000 S. Foust																				

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OngoH1.D	On-going		Advance the state of reduced-gravity fluid physics knowledge to enable dust control technologies and bulk materials handling for extraterrestrial habitats and/or in situ resource utilization.	On-going		B. Signh	6712	Fluid Physics Research Projects	GREEN	GREEN	GREEN	Science Concept Review (SCR) for two flight experiment (Electrostatics of Granular Media and Gas-Particle interaction in microgravity) scheduled to be completed in June 2000. 6000 M. Lester																					
OngoH1.E	On-going		Develop and demonstrate advanced power generation, storage and distribution technologies that will impact ISS, Space Shuttle, and Space Exploration activities.	On-going		R. Burns/J. Dunning	6900	TBD	GREEN	GREEN	GREEN	Recent activities are a station request to develop an alternate DDCU and the on-going flywheel project. 6000 M. Lester																					
OH2.0		2000	GRC Objective H2: For the combustion science and fluid physics disciplines, enable the research community to use gravity as an experimental variable. (Was supporting FY99 HEDS Goal 1, now FY2000 HEDS Goal 2)			G. BARNA	6000																										
2000H2.1		2000	Complete development, testing and delivery of the Combustion Module 2 (CM-2), along with one commercial and two scientific experiments, and prepare it for operation on STS-107.	4Q00 2Q00	Launch Delay 4Q00	A. Otero S. Simons	6729 6700	Microgravity Reserch Program	GREEN	RED	GREEN	STS-107 mission has been delayed to April of 2001. New CM-2 delivery date is August 2000. Project is on schedule to meet this date. 6000 M. Lester/A. Otero Schedule will be GREEN with PMC approval of date change.																					
2000H2.2		2000	Complete one Spread-Across-Liquid (SAL) and one Extensional Rheology Experiment (ERE) sounding rocket flight.	2Q00	Late 1Q01	S. Simons	6700	Microgravity Reserch Program	GREEN	YELLOW	GREEN	ERE will meet its milestone. SAL will be delayed to the first quarter of FY'01 to implement the results of theSAL-5 FRB and MRPO rocket funding constraints. 6000 M. Lester																					
2000H2.3	OH1	2000	Support an expanded microgravity research program of 200 investigations in the combustion science and fluid physics disciplines.	4Q00		S. Simons	6700	Microgravity Reserch Program	GREEN	GREEN	GREEN	6000 M. Lester																					
OngoH2.A	On-going		Enable increased combustion system efficiency, reduced pollution, and mitigation of fire risks through insights gained and data uniquely obtained from micro-gravity experiments.	On-going		D. Urban	6711	Combustion Science Research Projects	GREEN	GREEN	GREEN	6000 M. Lester																					
OngoH2.B	On-going		Conduct ground-breaking basic research in reduced-gravity fluid physics and transport phenomena to provide a fundamental understanding of natural phenomena affected by gravity, thereby increasing the efficiency and effectiveness of space-based and industrial processes by providing support to 54 principal investigators.	On-going		B. Singh	6712	Fluid Physics Research Project	GREEN	GREEN	GREEN	59 Principal Investigators currently supported to conduct flight and ground-based research through peer-review process.																					
OH3.0		2000	GRC Objective H3: Support the design, development, deployment and operation of the ISS and demonstrate technologies for nontoxic Space Shuttle upgrades that require less maintenance and hazardous ground processing than current hypergolic propulsion systems. (Was supporting FY99 HEDS Goals 3 and 4, now FY2000 HEDS Goal 3)			G. BARNA	6000																										
2000H3.1		2002 2000	Deliver more reliable efficient dc-to-dc converters and more efficient and flexible remote power switches for the ISS and continue the development of advance power system components to reduce ISS electric power system requirements.	4Q02 1Q00		J. Soeder	5450	M/ISS	N/A	N/A	N/A	There is NO MONEY to meet this milestone. There has never been any money to meet this milestone. Consequently, nobody is working on this milestone. 5450 J. Soeder Activity not yet started. This milestone is really due 4Q FY02, and should not have been included in the FY00 SIP. 6900 J. Dunning																					

2nd Quarter FY00 GRC SIP Milestone Status

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2000H3.2	2000		Design, develop, build, and deliver a safety-critical manual switch for the ISS power system.	1Q00	3Q99	J. Mullins	6900	M/ISS		GREEN	BLUE	GREEN	Completed. 6900 J. Dunning																				
Need SIP Milestone Change Form to officially remove the milestone from the FY00 SIP and move it to FY01.																																	
2000H3.3	2000		Provide for deployment on 6A UF-1 , the Physics of Colloids in Space (PCS) experiment, integrate it in the ISS EXPRESS rack, and initiate experiment operations following system checkout.	3Q01 4Q00	Launch Correct on 3Q01	N. Shaw	6728	Fluid Physics Research Projects		GREEN	GREEN	YELLOW	Manifest Correction: PCS is on mission 6A, not UF-1. 6A is currently scheduled for NET (No earlier than) April 19,2001. Technical Performance is "yellow" due to Bragg image failure after vibe & accidental damage to Bragg screen; assessment & resolution underway. 6700 N. Shaw																				
2000H3.4	2000		Complete the delivery of all Space Acceleration Measurement System (SAMS-II) equipment needed to support 6A UF-1 .	4Q00		D. Francisco	6727	Acceleration Measurement Research Projects		GREEN	GREEN	GREEN	Manifest Correction: Hardware development is on track to meet delivery dates for a 6A launch. Proposed title change. 6000 M. Lester/D. Francisco																				
2000H3.5	2001 2000		Complete safety and abuse testing of Lithium-Ion cells for an electric auxiliary power unit for the Space Shuttle.	4Q01 4Q00	Program Change 4Q01	R-Burns P. Dalton	6900	Shuttle Upgrade/ CETDP Power Tech.		N/A	N/A	N/A	We have received (in FY99 and FY00) sub allotted funds from JSC to support "Electric Auxiliary Power Unit" for shuttle upgrade. One of the tasks is Lithium battery testing. Penni Dalton (6910) said that the original plan was to have done this testing by 4Q00 and FY99 funds were obtained and sent to Crane. However, JSC/Boeing did not procure and provide the cells to be tested ... therefore no testing has yet been initiated. This is a schedule change by JSC/ Boeing. The first cells will not go on test until in April, and the current schedule will be to complete testing by 4Q01. 1Q00 6900 R. Burns																				
OngoH3.A	On-going		Provide power system and hardware expertise to support the development, verification, acceptance, sustaining engineering, and operations of the ISS.	On-going		B. Manners	6900	M/ISS		GREEN	GREEN	GREEN	6000 M. Lester																				
OngoH3.B	On-going		Analyze the ISS power system to determine end-to-end performance in stage and orientation-specific cases to support design analysis and verification analysis cycles; provide analyses of power system performance during ISS operations to validate system and component performance.	On-going		J. Hojnicky	6900	M/ISS		GREEN	GREEN	GREEN	6000 M. Lester																				
OngoH3.C	On-going		Analyze and interpret accelerometer data to characterize the microgravity environment of the ISS for the microgravity science principal investigations.	On-going		D. Francisco	6727	Acceleration Measurement Research Projects		GREEN	GREEN	GREEN	Software development is on track to meet operations requirements for a 6A launch. 6000 M. Lester/D. Francisco																				
OngoH3.D	On-going		Perform anomaly resolution using the Glenn-power system testbed.	On-going		J. Soeder	5450	M/ISS		GREEN	GREEN	GREEN	On-going, 5000 S. Foust																				

2nd Quarter FY00 GRC SIP Milestone Status

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0H4.0		2000	GRC Objective H4: Enable the commercialization of space communication, power, in-space propulsion, and other aerospace technologies. (Was supporting FY99 HEDS Goal 5, now FY2000 HEDS Goal 4)			G. BARNA	6000																										
2000H4.1		2000	Complete a Space Act Agreement with Lockheed Martin and establish an ACTS High Data Rate experiments capability at the Consolidated Space Operations Contract facilities in Houston, to enable integrated operations architecture experiments and service demonstrations.	2Q00	1Q00	J. Budinger/ B. Bauer	6100	Space Operations Program/ Technology Activities Project	GREEN	BLUE	GREEN	Completed. 6100 Paul McMasters																					
2000H4.2		2000	Complete the Space Internet Communications and Network Technology assessment.	3Q00		J. Budinger/ D. Ponchak	6100/ 6150	Space Operations Program/Communications Technology Activities Project	GREEN	GREEN	GREEN	6100 P. McMasters																					
2000H4.3		2000	Conduct a final ACTS Conference to close out the ACTS experiments program, share recent results, and commemorate NASA's accomplishments.	4Q00		J. Budinger/ B. Bauer	6100	Space Operations Program/Communications Technology Activities Project	GREEN	GREEN	GREEN	6100 P. McMasters																					
2000H4.4		2000	Shut down the ACTS communications payload, retire super-orbit the spacecraft, and terminate spacecraft operations.	4Q00		J. Budinger/ B. Bauer	6100	Space Operations Program/Communications Technology Activities Project	GREEN	GREEN	GREEN	Description change. 6100 P. McMasters																					
0H5.0		2000	GRC Objective H5: GRC will share its experiences and discoveries as set forth under the Crosscutting Process Objective entitled "Communicate Knowledge".			G. BARNA	6000																										

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0S1.0		2000	GRC Objective S1: Develop power, in-space propulsion, communication, and other advanced spacecraft technologies.			G. BARNA	6000																									
2000S1.1		2000	Demonstrate a 10 gigabytes per second Fast Packet Switch	1Q00	1Q00	M. Jarrell R. Kunath/ G. Fujikawa	6100/ 5650	CETDP/HRDD	GREEN	GREEN	GREEN	Complete 6100 Paul McMasters																				
2000S1.2		2000	Complete K-band monolithic microwave, integrated-circuit-based phased array development testing for use in Direct Data Distribution experiments.	2Q00	Late 1Q01	M. Jarrell R. Kunath/ A. Anzic	6100/ 5640	CETDP/High Rate Data Delivery	GREEN	RED	YELLOW	EAC remains at 15% over agreement. Contractor's performance shortfall prevents NASA's milestone payment. Delivery is delayed by 9 months. Funding problem resolved. 6000 M. Lester																				
2000S1.3		2000	Complete investigation of reliable transport protocols over dynamically delay-varying links	3Q00		M. Jarrell R. Kunath/ W. Ivancic	6100/ 5610	CETDP/HRDD	GREEN	GREEN	YELLOW	Range Delay / Variation emulator moved to new hardware system. S/W is being rebuilt in this new environment and debug will follow. 6000 M. Lester																				
2000S1.4		2000	Provide lithium-ion battery technology, in partnership with NASA/ Air Force Li Ion battery consortium, for the 2001 Mars Mission.	1Q00	1Q99	M. Manzo	5420	CETDP Power Tech.	GREEN	BLUE	GREEN	Completed. Was completed 1Q FY99. Credit for completion was taken in FY99, and therefore, it should not be in the FY00 GRC SIP.																				
2000S1.5		2000	Complete evaluation of UV durability of New Generation Space Telescope sun-shield materials.	4Q00		B. Banks	5480	NGST/ CETDP Power Tech.	GREEN	GREEN	GREEN	6000 M. Lester																				
0E1.0		2000	GRC Objective E1: Develop power, in-space propulsion, communication, and other advanced spacecraft technologies.			G. BARNA	6000																									
2000E1.1		2000	Develop advanced power converter using digital control and demonstrate output impedance tailoring. (Same as 2000H1.2)	3Q00	2Q00	J. Soeder	5450	CETDP Power Tech.	GREEN	GREEN	GREEN	Completed. Milestone completed late in 2Q of FY 2000. 5000 S. Foust																				
OngoE1.A	On-going		Work with the Earth Science Technology Office to develop a Platform Technologies Program that incorporates advanced power, propulsion, and communications technologies.	On-going		J. Davis	6100/ 6900	TBD	GREEN	GREEN	GREEN	GRC has started attending the monthly Code Y Program Reviews and is leading the Power + On-board Propulsion sub-topics of the ESE platform technologies topic in the SBIR 2000 process. 6000 M. Lester																				

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OM1.0		2000	GRC MS Objective 1.0: Optimize GRC investments and align its resources to customer requirements.			D. CAMPBELL	0100																									
2000M1.1	OMS1	2000	Reduce GRC's Civil Service workforce level from 1993 to 1983 FTE's.	4Q00		R. Fails	0200	N/A	GREEN	GREEN	GREEN	0200 R. Fails																				
2000M1.3	OMS4	2000	Cost 70 percent or more of the resources authority available to cost within the fiscal year.	4Q00		R. Fails	0200	N/A	GREEN	GREEN	GREEN	0200 R. Fails																				
OngoM1.E	OMS11	On-going	Meet all NASA Integrated Financial Management System milestones applicable to GRC.	On-going		R. Fails	0200	IFMS	GREEN	GREEN	GREEN	0200 R. Fails																				
OngoM1.A		ON-GOING	Create a Model Workplace demonstrated by GRC's Key Values of Diversity, Quality, Openness, and Integrity. Create and maintain a work environment free of discrimination, ensuring equal opportunity for all.	2003		P. WALKER	0100	N/A	GREEN	GREEN	YELLOW	Proposed title change. *Letters have been sent to all managers who have not completed Diversity Dialogue Sessions (DDS). They have been requested to contact their Process Consultant to either arrange for training or coaching, depending upon their management experience. 0100 P. Walker.																				
OngoM1.B	OMS2	ON-GOING	Achieve a workforce representative of America's diversity.	ON-GOING		R. Romero B-Hill/ Walker	P. 0180/ 0100	N/A	GREEN	GREEN	YELLOW	No major change in status in any PATCOB Categories during this reporting period. Professional Males Category remains the only Green rating; all others are Yellow or Red - overall rating remains "borderline" Yellow. 0180 D. Cotleur																				
OngoM1.C		ON-GOING	Reduce Eliminate EEO complaints by addressing issues and concerns through the Alternative Dispute Resolution process.	On-going		R. Romero B-Hill	0180	N/A	GREEN	GREEN	GREEN	As of 3/31/00, 9 employees have been counseled, but no formal complaints have been filed. 0180 D. Cotleur																				
2000M1.2	OMS3	2000	Reduce the GRC personnel occupational injury or illness lost time rate to 0.20 hour per 200,000 hours worked.	4Q00		M. Dominguez	0530	Safety Risk Management	GREEN	GREEN	GREEN	0500 F. Greco																				
2000M1.4		2000	Obtain ISO 9001 registration.	1Q00	4Q99	J. Haas	0106	BMS/ISO	GREEN	GREEN	GREEN	Completed 0106 J. Haas																				
2000M1.5		2000	Complete Business Management System implementation.	2Q00	Late 4Q00	J. Haas	0106	BMS/ISO	GREEN	RED	GREEN	Objective as stated will not be complete for years. Interpreted for this year to mean compliance of entire Center to ISO 9001 requirements. Revise planned completion to 4Q00. 0106 J. Haas Schedule will be GREEN with PMC approval of date change.																				
2000M1.6		2000	Complete the first ISO 9001 surveillance audit.	3Q00		J. Haas	0106	BMS/ISO	GREEN	GREEN	GREEN	Scheduled for week of 3/13/00. 0106 J. Haas																				
OngoM1.D		ON-GOING	Maintain ISO 9001 compliance and re-registration thereafter.	On-going		J. Haas	0106	BMS/ISO	RED	GREEN	GREEN	Additional budget request of \$365K for this FY has been submitted to RAM0 and CFO. 0106 J. Haas																				

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0M2.0		2000	GRC MS Objective 2.0: Increase performance-based contracting.			B. BAKER	0600																										
2000M2.1	OMS5	2000	Obligate at least 80 percent of all procurement dollars to performance-based contracts.	4Q00		Brad Baker	0600	N/A	GREEN	GREEN	GREEN	GRC is currently at 78%, or 2% below the goal. This is a significant improvement from FY99 and we fully expect to exceed the goal by the end of FY00. 0600 B. Baker																					
2000M2.2	OMS8	2000	Obligate at least 35% of all procurement dollars to Small Disadvantaged Business	4Q00		Brad Baker	0600	NA	GREEN	GREEN	GREEN	As of end of February, GRC is at 47%, well above the goal of 35%. We expect to end the FY00 with an actual percentage close to the February estimate. 0600 B. Baker																					
OngoM2.A		ON-GOING	Increase microprocurement contracting by GRC user activities to 75% of all actions.	ON-GOING		Brad Baker	0600	N/A	GREEN	GREEN	GREEN	The Bankcard usage at GRC is currently roughly at 80% of all microprocurements. We expect to stay at this percentage or experience modest growth. 0600 B. Baker																					
OngoM2.B	OMS8	ON-GOING	Increase efforts to identify eligible businesses to support set-aside decisions by participating in at least one new forum each year to identify new Small Disadvantaged Businesses and Women-owned businesses, each year.	On-going		B. Baker	0610	N/A	GREEN	GREEN	GREEN	To date this FY, GRC has participated in three new forums: two in Ohio and one in West Virginia. 0600 B. Baker																					
0M3.0		2000	GRC MS Objective 3.0: Ensure that GRC information technology provides an open and secure exchange of information, is consistent with Agency technical architectures and standards, demonstrates a projected return on investment, reduces risk, and directly contributes to mission success.																														
2000M3.1		2000	Conduct a Readiness Review to insure GRC preparedness for Y2K.	1Q00	4Q99	T. Scott	7150	Y2K	GREEN	GREEN	GREEN	Completed. GRC Readiness Review completed 9/27/99 to DLT																					
2000M3.2		2000	Conduct Zero Day and Leap Year Awareness and Preparedness Activities to insure seamless transition for GRC.	2Q00	2Q00	T. Scott	7150	Y2K	GREEN	GREEN	GREEN	Completed. Completed Zero Day rollover with great success. Outstanding actions: Complete Leap Year transition, HQ reporting requirements, awards, documentation archiving and project closure. 7100 Janeal M Oprea																					
2000M3.3		2000	Develop a final version of the GRC Business Contingency and Continuity Plan (BCCP).	1Q00	1Q00	T. Scott	7150	Y2K	GREEN	GREEN	GREEN	Complete. 7100 Janeal M Oprea																					
2000M3.4		2000	By the end of the third quarter, E nsure that the Code R Office Desktop Initiative for NASA (ODIN) selection process has been completed so that GRC's Glenn may fully transition to the selected ODIN vendor may be completed - on July 1, 2000.	3Q00		D. Sosoka	7100	ODIN	GREEN	GREEN	GREEN	7000 H. Ceh																					
2000M3.5		2000	By the end of the first quarter, C omplete the transition to a desktop seat management environment with all phases of the effort implemented, which includes including full metrics adherence and technology refreshment implemented.	1Q00	1Q00	D. Sosoka	7100	ODIN	GREEN	GREEN	GREEN	Complete. 7100 Janeal M Oprea																					
2000M3.6		2000	Implement a technology obsolescence plan.	3Q00		S. Pillay	7100	C/O	GREEN	GREEN	GREEN	7100 H. Ceh																					

2nd Quarter FY00 GRC SIP Milestone Status

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OngoM3.A	OMS10	2000 On-going	Ensure that under ODIN, desktop, telecommunication, and networking systems will be comparable to or better than current systems with regard to response time, downtime, and other key performance measures.	1Q00 On-going		Pam Kotlenz D.Sosoka	7100	ODIN -IT-Security	GREEN	GREEN	GREEN	1Q status had change from On-going to due 1Q, and owner changed. 2Q status changed back to original due date and owner. 7000 H. Ceh																				
OngoM3.B	OMS10	2000 On-going	Ensure that under ODIN, desktop, telecommunication, and networking costs will be no greater than the current full cost for current systems.	1Q00 On-going		Pam Kotlenz D.Sosoka	7100	ODIN -IT-Security	GREEN	GREEN	GREEN	1Q status had change from On-going to due 1Q, and owner changed. 2Q status changed back to original due date and owner. 7000 H. Ceh																				
2000M3.7		2000	Publish Glenn Policy Directive 2810, GRC Information Technology (IT) Program Policy and Glenn Procedures Guideline 2810, Information Technology Security Management.	1Q00	2Q00	Pam Kotlenz	7100	IT Security	GREEN	GREEN	GREEN	Completed. GLPG is published; GLPD is waiting for signature. 7100 Janeal M Oprea																				
2000M3.8		2000	Establish and publish a GRC Computer Security Incident Response and Reporting Policy.	1Q00	2Q00	Brenda Ellis	7190	IT Security	GREEN	GREEN	GREEN	Complete . 7100 Janeal M Oprea																				
2000M3.9		2000	Complete an Information Technology security risk assessment for the Telescience Center.	3Q00		Gretchen Davidian	6920	IT Security	GREEN	YELLOW	GREEN	Due to contract changes in the TSC, the risk assessment was delayed. Pam Kotlenz has met with the project manager and priority has been established to ensure completion in 3rd quarter. 7000 H. Ceh																				
2000M3.10		2000	Publish a GRC Information Security Training and Awareness Plan.	1Q00	2Q00	Pam Kotlenz & Training Office	7100 & 0480	IT Security	GREEN	GREEN	GREEN	Complete . 7100 Janeal M Oprea																				
OngoM3.C	GPRA?	2000	Ensure that Information Security Plans are implemented for all GRC IT systems.	4Q00		Pam Kotlenz	7100	IT Security	GREEN	YELLOW	GREEN	An aggressive effort is underway to accomplish this milestone. However, there should be no expectation that ALL IT security plans can be effected this FY. All NASA goals for MEI and Special Management Attention systems WILL be met by September 30, 2000. 7000 H. Ceh																				
OngoM3.D		2000	Ensure that robust network boundary controls are in place and maintained to protect mission data.	On-going		Richard Kurak	7190	IT Security	GREEN	GREEN	GREEN	7000 H. Ceh																				
OngoM3.E	GPRA?	2000	Periodically conduct vulnerability scans and penetration tests on all mission-critical GRC systems.	On-going		Richard Kurak	7190	IT Security	GREEN	GREEN	GREEN	7000 H. Ceh																				

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0P1.0		2000	GRC PAPAC Objective 1.0: Improve the effectiveness and usage of GRC test and computational facilities.			R. FURNAS	7000																										
2000P1.1	0R14	2000	On a scale from 0 to 10, ensure that at least 95 percent of all GRC facility users rate their satisfaction with GRC facilities at 6 or above (Satisfied) and that at least 80 percent rate their satisfaction at 8 or above (Highly Satisfied).	4Q00		T. Irvine Schaefer	7502 7500	N/A	GREEN	GREEN	GREEN	7000 H. Ceh																					
2000P1.2		2000	By the end of the first quarter, complete a decommissioning plan for the Plum Brook nuclear reactor facility and submit the plan to the NRC for review and approval.	1Q00	1Q00	T. Polich	0500	ENVIRONMENTAL	GREEN	GREEN	GREEN	Completed. SUBMITTED TO NRC 12/20/99																					
OngoP1.A	0P1	ON-GOING	Each year, invest 15% of research facility funding into research technology improvements.	On-going		B. Thomas	7501	N/A	GREEN	GREEN	GREEN	7000 H. Ceh																					
0P2.0		2000	GRC PAPAC Objective 2.0: Significantly enhance and expand GRC's critical technical capabilities.			W. WHITLOW/ M. GOLDSTEIN	5000/ 0100																										
OngoP2.A		ON-GOING	Develop and implement a critical technical capabilities and/or a core competencies plan.	On-going		W. Whitlow	5000	N/A	GREEN	YELLOW	GREEN	Areas at risk and critical positions identified. New college graduates hired. Staffing plan developed and awaiting approval to hire experienced researchers. Aeroacoustics Institute approved, funding identified, and Institute being implemented. 5000 W. Whitlow																					
OngoP2.B		ON-GOING	Maintain a high-quality-dual career ladder promotion process.	On-going		M. Goldstein	0100	N/A	GREEN	GREEN	GREEN	0100 M. Goldstein																					
OngoP2.C		ON-GOING	Optimize the R&T skill mix to meet the needs of Program/Project offices.	On-going		W. Whitlow	5000	N/A	GREEN	GREEN	GREEN	R&T workforce deployed to maximize output, and most milestones completed on time. 5000 W. Whitlow																					
OngoP2.D		ON-GOING	Maintain a high-quality Strategic Research Fund (SRF) in order to support breakthrough research in new areas and provide opportunities for GRC researchers to develop new ideas.	On-going		M. Goldstein	0100	N/A	GREEN	GREEN	GREEN	0100 M. Goldstein																					
OngoP2.E		ON-GOING	Maintain coordination between the SFR and GRC's Small Business Innovation Research and Small Business Technology Transfer Research activities.	On-going		M. Goldstein	0100	N/A	GREEN	GREEN	GREEN	0100 M. Goldstein																					
OngoP2.F		ON-GOING	Enhance the GRC technical skills that contribute to the Turbomachinery Center of Excellence	On-going		W. Whitlow	5000	N/A	GREEN	GREEN	GREEN	New college graduates hired. Awaiting approval to hire experienced researchers. 5000 W. Whitlow																					

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0P3	0P5	2000	GRC PAPAC Objective 3.0: Develop and maintain a comprehensive R&D risk management methodology.			B. Wessel	0500																									
OngoP3.A		ON-GOING	Ensure GRC's risk management methodology and all risk management plans comply with NPD 7120.4 and NPG 7120.5 and that they address safety, environmental compatibility, and security.	On-going		F. Robinson/ M. Domingues	0510/ 0530	Risk Management/Safety	GREEN	GREEN	GREEN	0500 F. Greco																				
OngoP3.B		ON-GOING	Utilize the Mission Assurance Program to improve the quality, timeliness, and cost-effectiveness of research products and services.	On-going		F. Robinson	0510	Risk Management	GREEN	GREEN	GREEN	0500 F. Greco																				
0P4		2000	GRC PAPAC Objective 4.0: Form alliances and partnerships with other NASA Centers, federal, state, and local agencies, academia, and industry.			G. BARNA/ W. WHITLOW	6000/ 5000																									
2000P4.1		2000	Establish and help maintain the North American Icing Alliance.	4Q00		N. Hannum/ T. Bond/ Tyburski	T. 5800	Aircraft Icing Research Alliance North American Icing Alliance	GREEN	GREEN	GREEN	No cost issues, no technical issues and no current schedule issues. The Aeronautics Directorate is working the details of the steering committees and working groups that are the governing bodies and planning organizations of the alliance. The R&T Directorate is no longer involved in these actions. This is being done by Carol Russo with her equivalent at National Research Council, Canada. 5000 S. Foust																				
2000P4.2	OMS8	2000	Support 30 women-owned and minority-owned small businesses under the Garrett Morgan Commercialization Initiative.	On-going		G. Steele/ L. Viterna	9400	Commercial Technology Office	GREEN	YELLOW	GREEN	LATE ARRIVAL OF EARMARKED MONEY DELAYED START OF PROGRAM BY 9 MONTHS. AS EARMARKED MONEY IT IS EXEMPT FROM NASA'S SPENDING GUIDELINES. 9000 R. Alexander																				
2000P4.3	OMS8	2000	Increase the number of tenants in the Lewis Incubator for Technology (LIFT) to 12, including 4 women-owned and minority-owned small businesses.	On-going		K. Veris/ L. Viterna	9400	Commercial Technology Office	GREEN	GREEN	GREEN	TENANTS INCLUDE 6 MINORITY AND 2 WOMEN OWNED BUSINESSES. TOTAL NUMBER OF TENANTS IS 12. 9000 R. Alexander																				
OngoP4.A	0P7	ON-GOING	Coordinate space technology development programs among NASA, DOD, and the National Reconnaissance Office (NRO) through the newly formed Space Technology Alliance and identify opportunities for leveraging funds to enhance the support of NASA missions.	On-going		J. Naininger J. Bagwell R. Sovie	6000	CETDP	GREEN	GREEN	GREEN	6000 M. Lester																				
OngoP4.B		ON-GOING	Through participation in and leadership of the NASA-wide Joint Planning Teams, ensure that the GRC space technology programs are coordinated with other NASA technology development programs and that they enable the revolutionary exploration missions planned by NASA.	On-going		J. Bagwell/ R. Sovie	6000	CETDP	GREEN	GREEN	GREEN	6000 M. Lester																				
OngoP4.C		ON-GOING	Provide leadership and technical support to the Interagency Power Group, which fosters the exchange and transfer of information regarding the development of advanced space power systems and has representation from all relevant U.S. Government agencies.	On-going		S. Reehorst R. Sovie	6000	CETDP	GREEN	GREEN	GREEN	Chaired Steering Committee in February to revitalize IAPG. Assessing the functionality and products of each Technical Working Group. Steering Committee plans to meet again on July 20. 6000 S. Reehorst																				

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OngoP4.D	ON-GOING		Implement a government-led communication alliance with academia and industry to create roadmaps and develop precompetitive technologies.	On-going		J. Bagwell/ W. Whitlow	6000/ 5000	CETDP	GREEN	GREEN	GREEN	6000 M. Lester																					
OngoP4.E	ON-GOING		Increase the value returned from the country's investment in microgravity research by managing the National Center for Microgravity Research on Fluids and Combustion to provide a focal point for the external academic and private sectors.	On-going		S. Simons	6700	Microgravity Research Program	GREEN	GREEN	GREEN	6000 M. Lester																					
OngoP4.F	ON-GOING		Provide leadership and technical support to the Glennan Microsystems Initiative,a collaboration with regional industrial and academic partners, to foster innovations in micro electronic, sensor, actuator, system and control technologies for harsh environments.	On-going		M. Zeller G-Mereer	5500 5520	Glennan Microsystems Initiative	YELLOW	YELLOW	YELLOW	JSRA completed with high praise from HQ and officially signed 5/00. SiC micromachined pressure sensor tested up to 800 psi up to 500 C. Ohmic contacts for SiC tested successfully at 500 C in air for over 600 hours. Costing behind due to late completion of JSRA but will accelerate after signing. 6000 M. Lester																					
OngoP4.G	ON-GOING		Provide leadership and technical support to the Propulsion Instrumentation Working Group, an industrial alliance fostering technical exchanges among aerospace engine manufacturers, the DoD, and NASA.	On-going		Jin-Feh Lei G-Mereer	5510 5520	Propulsion Instrumentation Working Group Glennan- Microsystems- Initiative	GREEN	GREEN	GREEN	6000 M. Lester																					
OG1.0	2000		GRC GK Objective 1.0: GRC will support NASA's Generate Knowledge Objectives as directed by NASA Headquarters.																														

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0C1.0	OR16	2000	GRC CK Objective 1.0: Expand and enhance GRC science, math, and engineering educational programs and public outreach. To accomplish this, GRC will align its educational programs with the framework described in the NASA Implementation Plan for Education.			J. HAIRSTON	9000																										
2000C1.1	OC1	2000	Teacher Preparation and Enhancement - Utilize two or more dissemination vehicles of other organizations to publicize on-site workshops to teachers in Northeast Ohio in order to increase participation from schools with under-represented student populations and to reduce mailing costs	4Q00		J. Charleston	9200	Education Programs	GREEN	GREEN	GREEN	9000 R. Alexander																					
2000C1.2	OC1	2000	Teacher Preparation and Enhancement - Deliver on-site educational workshops to 250 teachers	4Q00		J. Charleston	9200	Education Programs	GREEN	YELLOW	GREEN	DUE TO WORKSHOP CANCELLATION, NEW PROJECTION IS 225 TEACHERS. 9000 R. Alexander																					
2000C1.3	OC1	2000	Student Support Increase the number of students served over FY99, resources permitting, by expanding involvement with existing national programs, enhancing attendance in current programs, or seeking new initiatives with internal and external partners	4Q00		J. Charleston	9200	Education Programs	GREEN	GREEN	GREEN	9000 R. Alexander																					
2000C1.4	OC1	2000	Curriculum Support Depending on funding, bring in one or two primary teachers to develop aerospace curriculum materials suitable for grades K-3.	4Q00		J. Charleston	9200	Education Programs	RED	RED	RED	LACK OF FUNDING. Looking for ways to complete some of this effort. Want to replan. 9000 R. Alexander																					
2000C1.5	OC1	2000	Support Systemic Change Conduct a Needs Assessment of parental involvement in OEP programs	4Q00		J. Charleston	9200	Education Programs	GREEN	GREEN	GREEN	9000 R. Alexander																					
2000C1.6	OC1	2000	Education Technology - Complete EngineSim and distribute it to at least 1000 teachers and students over the Internet and through CD-ROM distribution	4Q00		J. Charleston	9200	Education Programs	GREEN	GREEN	GREEN	9000 R. Alexander																					
2000C1.7	OC1	2000	Education Technology - Provide videoconferencing workshops to at least 1500 students	4Q00		J. Charleston	9200	Education Programs	GREEN	GREEN	GREEN	9000 R. Alexander																					
0C2.0		2000	GRC CK Objective 2.0: - In the community and media relations area, increase and enhance publicity on GRC capabilities, accomplishments and contributions. - With respect to technology transfer, increase and enhance the productive use of GRC-generated or GRC-sponsored science and technology in the public and private sectors.																														
2000C2.1		2000	Establish a Community Relations Plan for the decommissioning of the Plum Brook nuclear reactor.	4Q00		S. Harrington	9300	Plum Brook nuclear reactor decom.	GREEN	GREEN	GREEN	9000 R. Alexander																					
2000C2.2		2000	Conduct a summit with industry focusing on micro-systems technology	4Q00		L. Viterna	9400	Community & Media Relations	GREEN	GREEN	GREEN	THIS EVENT WAS HELD IN NOVEMBER 1999, AND IS ESSENTIALLY COMPLETE. 9000 R. Alexander																					
OngoC2.A	ON-GOING		Increase GRC's presence at regional air shows and community events	On-going		L. Dukes-Campbell	9300	Community & Media Relations	GREEN	GREEN	GREEN	9000 R. Alexander																					

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GRC SIP ID No.	NASA MS	FY	GRC Objectives (In Bold Italic) / Milestones	Planned Date	Actual Date	Owner	Org.	Program/Project/ Process	COST	SCHEDULE	TECHNICAL PERFORM.	DESCRIPTION OF PROBLEM AND ACTION																					
OngoC2.B	ON-GOING		Increase GRC presence in local and regional media	On-going		L. Dukes-Campbell	9300	Community & Media Relations	GREEN	GREEN	GREEN	9000 R. Alexander																					
OngoC2.C	ON-GOING		Enhance the transfer of microgravity research results to industry through participation in a focused outreach program established by the National Center for Microgravity Research on Fluids and Combustion.	On-going		S. Simons	6700	Microgravity Research Program	GREEN	GREEN	GREEN	6000 M. Lester																					
OngoC2.D	OP6	ON-GOING	Invest 10 to 20 percent of the Center's R&D budget in partnerships with U.S. businesses.	On-going		K. Grasse/ L. Viterna	9400	Commercial Technology Office	GREEN	GREEN	GREEN	OUR PERCENTAGE CURRENTLY EXCEEDS THE 10 TO 20 PERCENT TARGET. 9000 R. Alexander																					
OngoC2.E	OR15	ON-GOING 2000	Report the transfer to another Enterprise program, another NASA Enterprise, a government agency, or industry all significant new technologies and processes developed from programs and projects sponsored by the Aero-Space Technology Enterprise at GRC Program Management Council meetings and through existing program reporting mechanisms.	On-going		P. McCallum / R.J. Shaw L. Viterna	0140 / 2100 9400	N/A	GREEN	GREEN	GREEN	Transferred gamma Titanium Aluminide sheet processing technologies to X-33/RLV program (HSR/UEET).																					
OC3		2005	GRC CK Objective 2.1: Enable the productive use of science and technology in the public and private sectors.			W. WHITLOW/ G. BARNA/ J. HAIRSTON	5000/ 6000/ 9000																										